

**March 24-Month Study**  
**Date: March 12, 2012**

**From:** Water Resources Group, Salt Lake City  
**To:** All Colorado River Annual Operating Plan (AOP) Recipients

**Current Reservoir Status**

Reservoir	February Inflow (unregulated) (acre-feet)	Percent of Average (%)	March 11 Midnight Elevation (feet)	Reservoir Storage (acre-feet)
Fontenelle	30,000	108	6468.45	113,000
Flaming Gorge	47,000	106	6027.89	3,268,000
Blue Mesa	21,000	94	7483.33	531,000
Navajo	18,900	62	6054.55	1,280,000
Powell	343,000	87	3634.96	15,416,000

**Expected Operations**

The operation of Lake Powell and Lake Mead in this March 2012 24-Month Study is pursuant to the December 2007 Record of Decision on Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations of Lake Powell and Lake Mead (Interim Guidelines), and reflects the 2012 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2011 24-Month Study projections of the January 1, 2012 system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2012.

Consistent with Section 6.A of the Interim Guidelines, the Lake Powell operational tier for water year 2012 is the Equalization Tier. The March 2012 24-Month Study projects the water year release volume from Lake Powell for 2012 to be 9.46 maf.

Consistent with Section 2.B.5 of the Interim Guidelines, the Intentionally Created Surplus (ICS) Surplus Condition is the criterion governing the operation of Lake Mead for calendar year 2012.

The Interim Guidelines are available for download at <http://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.

The 2012 AOP is available for download at <http://www.usbr.gov/lc/region/g4000/aop/AOP12.pdf>.

**Fontenelle Reservoir** – Inflows for the month of February were 30 kaf, or 108% of average. The reservoir elevation is 6470 feet above sea level and 34% of capacity. Current inflows are approximately 650 cfs and reservoir releases are 1,200 cfs. Releases will likely be close to 1,200 cfs or slightly lower through the early spring months and the reservoir elevation will continue to decline until spring runoff begins. Current snowpack above Fontenelle Reservoir is 103% of average.

The Colorado Basin River Forecast Center and Natural Resources Conservation Service have issued the coordinated forecast for the April to July 2012 runoff season. Inflows forecasted to be 730 kaf, or 101% of average. Inflows over the next three months are forecasted by the River Forecast Center to be: 47 kaf (87%), 82,000 kaf(96%) and 156,000 kaf (95%) for March, April, and May respectively.

The next Fontenelle Working Group meeting is scheduled for April 26, 2012 at 10:00 am at the Seedskaadee National Wildlife Refuge visitor's center. The Fontenelle Working Group is an open public forum for information exchange between Reclamation and other parties associated with the operation of Fontenelle Reservoir.

**Flaming Gorge Reservoir** – Unregulated inflow into Flaming Gorge Reservoir during the month of February was 47 thousand acre-feet (kaf), or 106 percent of 1981-2010 average inflow. Flaming Gorge Reservoir is releasing at an average daily release rate of 2,650 cfs/day and is anticipated to maintain releases during March-May between 2,300 and 2,700 cfs/day. Flaming Gorge reservoir elevation is decreasing and expected to continue decreasing through the winter to meet the May 1 target elevation of 6027 feet.

The Colorado Basin River Forecast Center and Natural Resources Conservation Service have issued the joint water supply forecast for the April-July runoff season. The March forecast for April-July unregulated inflow volume is 945 kaf (96 percent of average), which is an increase of 6 percent from the previous forecast. This volume corresponds with the average classification within the 2006 Record of Decision. The unregulated inflow volumes and percent of average for March, April and May are forecasted to be 98 kaf (96%), 145 kaf (109%), and 240 kaf (98%), respectively.

The next Flaming Gorge Working Group meeting is scheduled for April 18, 2012, at 1:00 p.m. at the Western Park Convention Center, 302 East 200 South, Vernal, Utah. The Flaming Gorge Working Group is an open public forum for information exchange between Reclamation and the stake holders of Flaming Gorge Dam. The public is encouraged to attend and comment on the operations and plans presented by Reclamation at these meetings. For more information on this group and these meetings please contact Heather Hermansen at 801-524-3883 or Ed Vidmar at 801-379-1182.

**Aspinall Reservoirs** – February unregulated inflow into Blue Mesa Reservoir was 22,000 acre-feet or 92 percent of average. On March 6, 2012 the basin snowpack was 82 percent of average, which is another increase of 10 percent from a month earlier. Precipitation during February was 110 percent of average. The current inflow rate into Blue Mesa Reservoir is about 450 cfs while reservoir releases are averaging about 525 cfs. The reservoir elevation is currently at 7483.47 feet, which corresponds to a storage content of about 532,000 acre-feet. This elevation is about 1 foot higher than last year's March elevation.

The latest Water Supply Forecast for Water Year 2012 has been issued and the April through July unregulated inflow is forecasted to be at 450,000 acre-feet (67% of normal), this is the same as last month's forecast. If this forecast holds through May 1<sup>st</sup>, the Black Canyon Water Right would call for a one day peak flow of 2,200 cfs. At this time Reclamation plans to continue to operate the Aspinall Unit to allow the water right to be met. Based on this forecast and the combination of meeting the Black Canyon Water this coming spring, Blue Mesa Reservoir is projected to not fill this runoff season. The projected fill is calculated to be about 7506.0 feet, or about 13.0 feet short of top of active conservation pool.

Releases from Crystal are currently set at 600 cfs. The Gunnison Diversion Tunnel is currently shut down for the season, with the exception of some small 50 to 100 cfs diversions taken bi-weekly for municipal water needs in Montrose, Colorado. The tunnel is expected to reopen for irrigation season sometime during the last week of March.

Reservoir releases are likely to change during March into May as we respond to changing forecasts and runoff conditions.

The next meeting of the "Aspinall Unit Working Group" will be held on Thursday, April 26, 2012 starting at 1:00 PM in Reclamation's Grand Junction Office. At this meeting, review of this winter's reservoir operations, and plans for this spring and summer operations will be discussed. These meetings are open forum discussions on the Aspinall Unit reservoir operations with many interested groups participating. Anyone needing further information about these meetings should contact Dan Crabtree in the Grand Junction Area Office at (970) 248-0652.

**Navajo Reservoir** - Releases from Navajo Reservoir remain near a constant 500 cfs. Reservoir releases are made for the authorized purposes of the Navajo Unit, and to attempt to maintain a target base flow through the endangered fish critical habitat reach of the San Juan River (Farmington to Lake Powell).

The San Juan River Basin Recovery Implementation Program recommends a target base flow of between 500 cfs and 1,000 cfs through the critical habitat area. The target base flow is calculated as the weekly average of gaged flows throughout the critical habitat area, therefore daily flows of less than 500 cfs may occur at some gages.

The current San Juan River basin snowpack as of March 6<sup>th</sup> is 81% of average snow water equivalent (SWE). For the Animas River Basin it is 84%. Pending significant changes in the weather and stream flow conditions, the reservoir release will likely remain at 500 cfs through this spring (2012).

Precipitation for the month of February in the San Juan River basin was about 125% of average as compared to January's 70% and December's 85% of average. Unregulated inflow into Navajo Reservoir during the month of February was 18,900 acre-feet, or 62 percent of average. Currently, the daily reservoir inflow is averaging about 350 cfs. Diversions for NIIP have currently restarted and have been as high as 200 cfs. The reservoir water surface elevation is at 6054.71 feet, which corresponds to a storage content of about 1,282,000 acre-feet.

A public meeting on Navajo Reservoir operations will be held on Wednesday, April 24, 2012, starting at 1:00 pm at the Civic Center in Farmington, New Mexico (200 West Arrington Street). At this meeting, review of this winter's reservoir operations, and plans for this spring and summer operations will be discussed. These meetings are open forum discussions on the operation of Navajo Reservoir with many interested groups participating. Anyone interested in the general operation of the reservoir is encouraged to attend. Please contact Ryan Christianson in Reclamation's Durango, Colorado Office at (970) 385-6590 for information about these meetings or the daily operation of Navajo Reservoir.

**Glen Canyon Dam / Lake Powell** –The monthly unregulated inflow volume to Lake Powell for February was 342 thousand acre-feet (kaf) (87% of average). This was 47 kaf below what was forecasted in early February. The release volume from Glen Canyon Dam in February was 652 kaf which was 2 kaf above what was projected for the month. As a result of these differences, the elevation of Lake Powell at the end of February was 0.32 feet (about 4 inches) lower than projected and the end of February elevation of Lake Powell was 3635.28 feet above sea level (64.72 feet below full pool).

Current snowpack conditions above Lake Powell are 80% of average (March 7, 2012) and the current Water Supply Forecast for Lake Powell (April through July Unregulated Inflow Volume) is 5.30 maf 74% of average. This forecast was updated on the March 2, 2012 by the Colorado Basin River Forecast Center.

### **Current Dam Operations**

In August 2011, pursuant to the Interim Guidelines, the Operating Tier for Glen Canyon Dam was established to be the Equalization Tier. Under the Equalization Tier for 2012, with 1.233 maf of release carried over from 2011 to 2012, the annual release volume for 2012 could be as low as 9.46 maf or higher depending on actual inflow conditions. As hydrologic conditions for Lake Powell and Lake Mead change throughout the year, Reclamation will adjust operations of Glen Canyon Dam to release the appropriate annual volume during 2012 to achieve Equalization objectives as practicably as possible by September 30, 2012.

Releases from Glen Canyon Dam are now averaging about 9,750 cfs with fluctuations for power generation throughout the day that peak near 13,000 cfs in the afternoons and with early morning low level releases are about 7,000 cfs and this operation is consistent with the Glen Canyon Operating Criteria (Federal Register, Volume 62, No. 41, March 3, 1997). The release volume for March is scheduled to be 600 kaf. In April, the monthly release volume will likely be 600 kaf as well depending on snowpack and forecast conditions. Release fluctuations in April would likely be similar to March ranging from 7,000 cfs, in the early morning, to 13,000 cfs, in the afternoon.

In addition to daily scheduled fluctuations for power generation, the instantaneous releases from Glen Canyon Dam may also fluctuate to provide 40 MW of system regulation. These instantaneous release adjustments stabilize the electrical generation and transmission system and translate to a range of about 1100 cfs above or below the hourly scheduled release rate. Typically, fluctuations for system regulation are very short lived and balance out over the hour and do not have noticeable impacts on downstream river flow conditions.

Releases from Glen Canyon Dam can also fluctuate beyond scheduled fluctuations for power generation when called upon as a partner that shares reserve requirements within the electrical generator community (i.e. balancing area). There are many generators that supply electricity to the transmission system within the balancing area. At times, a participating generator may experience operating conditions such that it cannot make its scheduled delivery of electricity to the system (i.e. unscheduled outage). To provide system reliability, all participating electricity generators within the balancing area maintain a specified level of generation capacity (i.e. reserves) that can be called upon when an unscheduled outage occurs. Glen Canyon Dam typically maintains 113 MW of reserves for this purpose.

Reserve agreements allow the controllers of the balancing area to call upon Glen Canyon Dam to produce up to an additional 113 MW of electricity beyond what is originally scheduled for a given hour. Reserve calls can be maintained for a maximum of 2 hours after which time the generation rate should be returned to the original schedule. The 113 MW reserve requirement for Glen Canyon Dam translates to approximately 2,800 cfs of flow in the river. When the balancing area controllers call for reserve generation from Glen Canyon Dam, releases from the dam can exceed scheduled levels and have a noticeable impact on the river downstream from Glen Canyon Dam. But these calls for reserves are fairly infrequent and typically are for much less than the required level of 113 MW.

### **Current Inflow Forecasts and Model Projections**

Over the next three months (March, April and May) the forecasted unregulated inflow volume to Lake Powell is projected to be 550 kaf (83% of average), 800 kaf (76% of average) and 1,730 kaf (74% of average), respectively. These percent of averages are all based on the historic period from 1981 through 2010. Combining this forecast with the

February Water Supply Forecast and extending projections to the end of WY2012, the most probable (i.e. 50% likely to be exceeded) unregulated inflow volume for WY2012 is projected to be 8.70 maf (80% of average). There is significant uncertainty associated with this forecast. Recent analysis indicates that it is reasonably possible for the actual unregulated inflow volume for water year 2012 to be as low as 6.6 maf (61% of average) or as high as 11.6 maf (107% of average) depending on the range of precipitation patterns that could occur over the next several months.

Based on the reasonable range inflow conditions that could occur this year, the annual release volume from Glen Canyon Dam could be as low as 9.46 maf to as high as 12.92 maf. Under the most probable inflow condition, the annual release volume is projected to be 9.46 maf and the elevation of Lake Powell at the end of WY2012 is projected to be 3644.3 feet above sea level. This elevation corresponds to a live storage volume of 16.52 maf (68% of full capacity).

### **Upper Colorado River Basin Hydrology**

Since water year 2005, hydrologic conditions in the Upper Colorado River Basin have been near average with significant variability from year to year. The unregulated inflow to Lake Powell, which is a good measure of the hydrologic condition in the Colorado River Basin, has averaged a water year volume of 10.98 maf (101% of average (period 1981-2010)) during the period from 2005 through 2011. The hydrologic variability during this period has been from a low water year unregulated inflow volume of 8.62 maf (80% of average) in water year 2006 to a high water year unregulated inflow volume of 15.97 maf (147% of average) which occurred in water year 2011.

Overall reservoir storage in the Colorado River Basin has increased by over 8 maf since the beginning of water year 2005 and this is a significant improvement over the drought conditions during water years 2000 through 2004. On October 1, 2004, the beginning of water year 2005, the total reservoir storage in the Colorado River Basin was 29.84 maf (50.2% of capacity). On October 1, 2011, the beginning of water year 2012, the total reservoir storage in the Colorado River Basin was 38.66 maf (64.8% of capacity). As of March 7, 2012 the total reservoir storage in the Colorado River Basin was 37.83 maf (63.4% of capacity).

TO ALL ANNUAL OPERATING PLAN RECIPIENTS

MAILED FROM UPPER COLORADO REGION

WATER RESOURCES GROUP  
ATTENTION UC-430  
125 SOUTH STATE STREET, ROOM 6107  
SALT LAKE CITY, UT 84138-5571  
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RUNOFF AND INFLOW PROJECTIONS INTO UPPER BASIN RESERVOIRS ARE PROVIDED BY  
THE COLORADO RIVER FORECASTING SERVICE THROUGH THE NATIONAL WEATHER SERVICES'S  
COLORADO BASIN RIVER FORECAST CENTER AND ARE AS FOLLOWS

:			Obs			feb	Forecast		Outlook	
:	nov	dec	jan	feb	%Avg	mar	apr	may	apr-jul	%Avg
GLDA3:Lake Powell	506	363	356	343	87%:	550/	800/	1730/	5300/:	74%
GBRW4:Fontenelle	46	35	32	30	108%:	47/	82/	156/	730/:	101%
GRNU1:Flaming Gorge	64	38	45	47	106%:	98/	145/	240/	945/:	96%
BMDC2:Blue Mesa	29	24	22	21	94%:	30/	64/	150/	450/:	67%
MPSC2:Morrow Point	30	25	23	22	88%:	33/	73/	166/	500/:	68%
CLSC2:Crystal	34	28	27	26	90%:	38/	84/	190/	555/:	66%
TPIC2:Taylor Park	5.2	4.1	3.8	3.9	103%:	3.8/	7/	23/	72/:	73%
VCRC2:Vallecito	8.6	5.3	4.7	4.3	91%:	6.5/	24/	70/	185/:	95%
NVRN5:Navajo	31	19.0	17.7	18.9	62%:	65/	145/	255/	650/:	88%
LEMC2:Lemon	1.49	1.00	0.78	0.70	92%:	1.3/	6/	21/	52/:	95%
MPHC2:McPhee	4.9	2.8	3.0	3.3	66%:	13/	55/	115/	240/:	81%
RBSC2:Ridgway	5.7	4.1	4.0	3.5	97%:	5.1/	9.5/	26/	90/:	89%

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 2012 24-Month Study

Most Probable Inflow\*

Fontenelle Reservoir



Date	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
* Mar 2011	36	1	58	0	58	6473.74	136
H Apr 2011	92	1	84	15	100	6471.99	128
I May 2011	161	1	89	79	168	6470.20	120
S Jun 2011	429	1	87	283	370	6481.96	178
T Jul 2011	539	2	110	313	424	6498.87	290
O Aug 2011	118	2	88	1	89	6502.38	317
R Sep 2011	49	2	66	0	66	6499.90	298
<b>WY 2011</b>	<b>1581</b>	<b>14</b>	<b>801</b>	<b>747</b>	<b>1549</b>		
I Oct 2011	50	1	56	18	74	6496.55	273
C Nov 2011	46	1	22	49	71	6492.84	247
A Dec 2011	35	1	74	0	74	6486.86	207
L Jan 2012	32	1	74	0	74	6479.61	165
* Feb 2012	30	0	69	0	69	6471.56	126
Mar 2012	47	0	74	0	74	6464.90	99
Apr 2012	82	1	71	0	71	6467.48	109
May 2012	156	1	97	0	97	6479.97	167
Jun 2012	320	2	102	83	185	6500.07	299
Jul 2012	172	3	101	24	125	6505.75	344
Aug 2012	75	2	87	0	87	6503.88	329
Sep 2012	45	2	69	0	69	6500.55	303
<b>WY 2012</b>	<b>1090</b>	<b>15</b>	<b>896</b>	<b>175</b>	<b>1071</b>		
Oct 2012	49	1	71	0	71	6497.39	280
Nov 2012	42	1	69	0	69	6493.55	252
Dec 2012	32	1	71	0	71	6487.60	212
Jan 2013	30	1	71	0	71	6480.78	171
Feb 2013	28	1	64	0	64	6473.41	134
Mar 2013	53	0	74	0	74	6468.37	112
Apr 2013	85	1	83	0	83	6468.87	114
May 2013	164	1	98	7	105	6480.91	172
Jun 2013	299	2	102	67	169	6500.14	300
Jul 2013	178	3	101	32	133	6505.51	342
Aug 2013	77	2	88	0	88	6503.83	328
Sep 2013	46	2	69	0	69	6500.55	303
<b>WY 2013</b>	<b>1082</b>	<b>15</b>	<b>961</b>	<b>106</b>	<b>1067</b>		
Oct 2013	49	1	72	0	72	6497.29	279
Nov 2013	42	1	69	0	69	6493.37	251
Dec 2013	32	1	72	0	72	6487.31	211
Jan 2014	30	1	72	0	72	6480.34	169
Feb 2014	28	0	65	0	65	6472.75	131

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 2012 24-Month Study

Most Probable Inflow\*

Flaming Gorge Reservoir



	Date	Unreg Inflow (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Jensen Flow (1000 Ac-Ft)
*	Mar 2011	98	120	3	59	0	59	127	6024.99	3160	178
H	Apr 2011	159	166	5	172	0	172	127	6024.71	3150	480
I	May 2011	327	334	8	279	47	326	127	6024.73	3150	1110
S	Jun 2011	667	608	10	254	173	427	133	6029.11	3315	1570
T	Jul 2011	771	656	14	263	94	357	144	6036.07	3590	905
O	Aug 2011	144	115	13	148	0	148	142	6034.95	3544	246
R	Sep 2011	58	76	11	144	0	144	139	6033.03	3467	200
<b>WY 2011</b>		<b>2414</b>	<b>2381</b>	<b>80</b>	<b>1661</b>	<b>314</b>	<b>1975</b>				<b>5234</b>
I	Oct 2011	74	97	7	120	0	121	138	6032.27	3437	187
C	Nov 2011	64	89	4	88	0	88	138	6032.21	3435	144
A	Dec 2011	38	77	2	108	0	108	137	6031.41	3404	146
L	Jan 2012	45	87	2	148	0	148	134	6029.85	3343	187
*	Feb 2012	47	86	2	140	0	140	132	6028.43	3289	186
	Mar 2012	98	125	3	161	0	161	131	6027.42	3251	161
	Apr 2012	145	134	5	158	0	158	130	6026.70	3224	158
	May 2012	240	181	8	192	0	192	129	6026.23	3206	192
	Jun 2012	365	230	10	200	0	200	130	6026.74	3225	200
	Jul 2012	195	148	13	92	0	92	131	6027.83	3266	92
	Aug 2012	84	97	13	92	0	92	131	6027.63	3258	92
	Sep 2012	54	78	11	89	0	89	130	6027.05	3237	89
<b>WY 2012</b>		<b>1449</b>	<b>1429</b>	<b>80</b>	<b>1588</b>	<b>1</b>	<b>1589</b>				<b>1835</b>
	Oct 2012	59	81	7	92	0	92	129	6026.59	3219	92
	Nov 2012	51	78	3	89	0	89	129	6026.20	3205	89
	Dec 2012	35	74	2	92	0	92	128	6025.69	3186	92
	Jan 2013	40	81	2	92	0	92	128	6025.35	3173	92
	Feb 2013	45	81	2	83	0	83	127	6025.24	3169	83
	Mar 2013	102	124	3	92	0	92	129	6025.98	3196	92
	Apr 2013	134	131	5	89	0	89	130	6026.92	3232	89
	May 2013	245	186	8	129	0	129	132	6028.19	3280	129
	Jun 2013	390	259	10	230	0	230	133	6028.68	3299	230
	Jul 2013	210	166	14	101	0	101	135	6029.95	3347	101
	Aug 2013	89	100	13	101	0	101	134	6029.59	3333	101
	Sep 2013	55	79	11	98	0	98	133	6028.82	3304	98
<b>WY 2013</b>		<b>1455</b>	<b>1440</b>	<b>80</b>	<b>1290</b>	<b>0</b>	<b>1290</b>				<b>1290</b>
	Oct 2013	59	82	7	101	0	101	132	6028.14	3278	101
	Nov 2013	51	78	3	98	0	98	131	6027.55	3255	98
	Dec 2013	35	74	2	101	0	101	130	6026.82	3228	101
	Jan 2014	40	82	2	101	0	101	129	6026.27	3207	101
	Feb 2014	45	82	2	92	0	92	129	6025.95	3195	92

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Taylor Park Reservoir



	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Mar 2011	5	6	9311.89	73
H	Apr 2011	7	8	9311.44	72
I	May 2011	22	33	9304.21	61
S	Jun 2011	65	28	9326.09	98
T	Jul 2011	37	39	9325.07	96
O	Aug 2011	12	24	9318.44	84
R	Sep 2011	7	20	9310.68	71
<b>WY 2011</b>		<b>179</b>	<b>181</b>		
I	Oct 2011	7	9	9309.52	69
C	Nov 2011	5	6	9309.15	69
A	Dec 2011	4	6	9307.93	67
L	Jan 2012	4	5	9307.37	66
*	Feb 2012	4	4	9307.22	66
	Mar 2012	4	5	9306.43	64
	Apr 2012	7	5	9307.74	66
	May 2012	23	10	9315.72	79
	Jun 2012	30	18	9322.39	91
	Jul 2012	12	20	9318.01	83
	Aug 2012	8	18	9311.86	73
	Sep 2012	6	16	9305.69	63
<b>WY 2012</b>		<b>114</b>	<b>122</b>		
	Oct 2012	7	10	9303.41	60
	Nov 2012	5	5	9303.49	60
	Dec 2012	5	5	9303.27	60
	Jan 2013	4	5	9302.81	59
	Feb 2013	4	4	9302.67	59
	Mar 2013	4	5	9302.28	58
	Apr 2013	9	5	9304.88	62
	May 2013	28	12	9315.13	78
	Jun 2013	42	20	9326.93	100
	Jul 2013	20	20	9327.00	100
	Aug 2013	10	20	9321.93	91
	Sep 2013	7	16	9317.16	82
<b>WY 2013</b>		<b>146</b>	<b>127</b>		
	Oct 2013	7	12	9314.06	77
	Nov 2013	5	6	9313.53	76
	Dec 2013	5	6	9312.73	74
	Jan 2014	4	6	9311.73	73
	Feb 2014	4	6	9310.49	71

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 2012 24-Month Study

Most Probable Inflow\*

Blue Mesa Reservoir



Date	UnReg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
* Mar 2011	38	39	0	75	0	75	7478.48	495
H Apr 2011	77	78	1	95	0	95	7475.97	477
I May 2011	168	179	1	162	0	162	7478.26	493
S Jun 2011	425	389	1	127	19	146	7508.73	735
T Jul 2011	222	222	2	150	0	150	7516.80	806
O Aug 2011	67	79	1	123	0	123	7511.67	760
R Sep 2011	35	48	1	108	0	108	7504.54	699
<b>WY 2011</b>	<b>1162</b>	<b>1163</b>	<b>8</b>	<b>1046</b>	<b>19</b>	<b>1065</b>		
I Oct 2011	36	38	1	93	0	93	7497.84	644
C Nov 2011	29	29	0	37	0	37	7496.82	635
A Dec 2011	24	26	0	87	0	87	7489.07	574
L Jan 2012	22	23	0	52	0	52	7485.29	545
* Feb 2012	21	22	0	34	0	34	7483.66	533
Mar 2012	30	31	0	27	0	27	7484.17	537
Apr 2012	64	62	1	40	0	40	7486.98	558
May 2012	150	137	1	72	0	72	7495.15	622
Jun 2012	172	160	1	60	0	60	7507.08	721
Jul 2012	64	72	1	99	0	99	7503.71	692
Aug 2012	44	55	1	98	0	98	7498.35	648
Sep 2012	32	42	1	79	0	79	7493.63	610
<b>WY 2012</b>	<b>689</b>	<b>697</b>	<b>9</b>	<b>778</b>	<b>0</b>	<b>778</b>		
Oct 2012	38	42	1	52	0	52	7492.24	599
Nov 2012	31	31	0	23	0	23	7493.23	607
Dec 2012	26	26	0	51	0	51	7490.00	581
Jan 2013	24	25	0	61	0	61	7485.28	545
Feb 2013	22	23	0	55	0	55	7480.89	513
Mar 2013	36	37	0	44	0	44	7479.82	505
Apr 2013	77	73	1	48	0	48	7483.17	529
May 2013	221	205	1	124	0	124	7493.53	609
Jun 2013	261	239	1	60	0	60	7514.68	787
Jul 2013	117	117	2	100	0	100	7516.40	802
Aug 2013	63	73	1	122	0	122	7510.76	752
Sep 2013	38	47	1	115	0	115	7502.69	684
<b>WY 2013</b>	<b>955</b>	<b>937</b>	<b>9</b>	<b>854</b>	<b>0</b>	<b>854</b>		
Oct 2013	38	44	1	70	0	70	7499.43	657
Nov 2013	31	32	0	40	0	40	7498.42	648
Dec 2013	26	27	0	94	0	94	7490.00	581
Jan 2014	24	26	0	67	0	67	7484.61	540
Feb 2014	22	24	0	55	0	55	7480.45	509

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Morrow Point Reservoir



	Date	Unreg Inflow (1000 Ac-Ft)	Blue Mesa Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Mar 2011	38	75	1	75	73	0	73	7154.37	113
H	Apr 2011	84	95	7	102	104	0	104	7152.20	111
I	May 2011	191	162	23	185	181	0	181	7156.18	114
S	Jun 2011	455	146	30	176	170	0	176	7155.72	114
T	Jul 2011	231	150	9	159	159	0	159	7155.22	113
O	Aug 2011	68	123	1	125	124	0	124	7155.77	114
R	Sep 2011	36	108	1	109	115	0	115	7148.00	108
<b>WY 2011</b>		<b>1236</b>	<b>1065</b>	<b>74</b>	<b>1139</b>	<b>1133</b>	<b>0</b>	<b>1139</b>		
I	Oct 2011	37	93	1	94	91	0	91	7151.08	110
C	Nov 2011	30	37	2	39	38	0	38	7151.73	110
A	Dec 2011	25	87	0	88	85	0	85	7154.97	113
L	Jan 2012	23	52	1	53	52	0	52	7155.61	113
*	Feb 2012	22	34	1	35	35	0	35	7155.27	113
	Mar 2012	33	27	3	30	31	0	31	7153.73	112
	Apr 2012	73	40	9	49	49	0	49	7153.73	112
	May 2012	166	72	16	88	88	0	88	7153.73	112
	Jun 2012	190	60	18	78	78	0	78	7153.73	112
	Jul 2012	71	99	7	106	106	0	106	7153.73	112
	Aug 2012	48	98	4	102	102	0	102	7153.73	112
	Sep 2012	35	79	3	82	82	0	82	7153.73	112
<b>WY 2012</b>		<b>753</b>	<b>778</b>	<b>64</b>	<b>842</b>	<b>837</b>	<b>0</b>	<b>837</b>		
	Oct 2012	41	52	3	55	55	0	55	7153.73	112
	Nov 2012	33	23	2	25	25	0	25	7153.73	112
	Dec 2012	28	51	2	53	53	0	53	7153.73	112
	Jan 2013	27	61	2	63	63	0	63	7153.73	112
	Feb 2013	25	55	3	58	58	0	58	7153.73	112
	Mar 2013	40	44	4	48	48	0	48	7153.73	112
	Apr 2013	88	48	11	59	59	0	59	7153.73	112
	May 2013	247	124	26	150	150	0	150	7153.73	112
	Jun 2013	281	60	20	80	80	0	80	7153.73	112
	Jul 2013	123	100	6	106	106	0	106	7153.73	112
	Aug 2013	67	122	3	125	125	0	125	7153.73	112
	Sep 2013	41	115	3	117	117	0	117	7153.73	112
<b>WY 2013</b>		<b>1040</b>	<b>854</b>	<b>85</b>	<b>939</b>	<b>939</b>	<b>0</b>	<b>939</b>		
	Oct 2013	41	70	3	73	73	0	73	7153.73	112
	Nov 2013	33	40	2	42	42	0	42	7153.73	112
	Dec 2013	28	94	2	96	96	0	96	7153.73	112
	Jan 2014	27	67	2	69	69	0	69	7153.73	112
	Feb 2014	25	55	3	58	58	0	58	7153.73	112

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*  
Crystal Reservoir



	Date	Unreg Inflow (1000 Ac-Ft)	Morrow Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Tunnel Flow (1000 Ac-Ft)	Below Tunnel Flow (1000 Ac-Ft)
*	Mar 2011	43	73	5	78	78	0	78	6751.94	17	5	76
H	Apr 2011	92	104	8	112	110	2	112	6752.03	17	38	79
I	May 2011	204	181	13	195	126	68	194	6753.39	17	63	137
S	Jun 2011	516	176	61	237	120	81	237	6752.90	17	62	183
T	Jul 2011	255	159	23	182	128	58	186	6739.47	13	62	136
O	Aug 2011	75	124	7	131	126	2	129	6748.39	16	66	70
R	Sep 2011	39	115	4	119	120	0	120	6744.21	14	64	62
<b>WY 2011</b>		<b>1375</b>	<b>1139</b>	<b>139</b>	<b>1278</b>	<b>1008</b>	<b>235</b>	<b>1279</b>			<b>413</b>	<b>912</b>
I	Oct 2011	41	91	4	96	94	0	94	6749.65	16	53	44
C	Nov 2011	34	38	4	42	41	1	41	6751.53	17	1	41
A	Dec 2011	28	85	3	88	89	0	89	6750.95	16	1	90
L	Jan 2012	27	52	3	56	53	3	56	6751.28	16	1	57
*	Feb 2012	26	35	3	38	15	23	38	6751.90	17	1	
	Mar 2012	38	31	5	36	36	0	36	6753.04	17	5	31
	Apr 2012	84	49	11	60	60	0	60	6753.04	17	30	30
	May 2012	190	88	24	112	112	0	112	6753.04	17	55	57
	Jun 2012	208	78	18	96	96	0	96	6753.04	17	60	36
	Jul 2012	73	106	2	108	108	0	108	6753.04	17	65	43
	Aug 2012	52	102	4	105	105	0	105	6753.04	17	65	40
	Sep 2012	39	82	5	86	86	0	86	6753.04	17	55	31
<b>WY 2012</b>		<b>839</b>	<b>837</b>	<b>86</b>	<b>923</b>	<b>894</b>	<b>26</b>	<b>921</b>			<b>390</b>	<b>500</b>
	Oct 2012	47	55	6	61	61	0	61	6753.04	17	30	31
	Nov 2012	38	25	5	30	30	0	30	6753.04	17	0	30
	Dec 2012	32	53	5	58	58	0	58	6753.04	17	0	58
	Jan 2013	31	63	5	68	68	0	68	6753.04	17	0	68
	Feb 2013	29	58	4	61	61	0	61	6753.04	17	0	61
	Mar 2013	46	48	6	54	54	0	54	6753.04	17	5	49
	Apr 2013	101	59	12	72	72	0	72	6753.04	17	30	42
	May 2013	281	150	34	184	134	50	184	6753.04	17	55	129
	Jun 2013	315	80	34	114	114	0	114	6753.04	17	60	54
	Jul 2013	138	106	14	120	120	0	120	6753.04	17	65	55
	Aug 2013	75	125	8	134	134	0	134	6753.04	17	65	69
	Sep 2013	47	117	6	123	123	0	123	6753.04	17	55	68
<b>WY 2013</b>		<b>1180</b>	<b>939</b>	<b>140</b>	<b>1079</b>	<b>1029</b>	<b>50</b>	<b>1079</b>			<b>365</b>	<b>714</b>
	Oct 2013	47	73	6	79	79	0	79	6753.04	17	30	49
	Nov 2013	38	42	5	47	47	0	47	6753.04	17	0	47
	Dec 2013	32	96	5	101	101	0	101	6753.04	17	0	101
	Jan 2014	31	69	5	74	74	0	74	6753.04	17	0	74
	Feb 2014	29	58	4	61	61	0	61	6753.04	17	0	61

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Vallecito Reservoir



	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Mar 2011	7	2	7645.67	77
H	Apr 2011	22	4	7653.10	95
I	May 2011	44	27	7659.70	111
S	Jun 2011	79	64	7664.94	125
T	Jul 2011	23	39	7658.78	109
O	Aug 2011	9	37	7647.29	81
R	Sep 2011	8	29	7637.58	59
<b>WY 2011</b>		<b>225</b>	<b>222</b>		
I	Oct 2011	15	9	7640.42	65
C	Nov 2011	9	2	7643.33	72
A	Dec 2011	5	2	7644.76	75
L	Jan 2012	5	3	7645.42	76
*	Feb 2012	4	4	7645.50	76
	Mar 2012	7	3	7647.01	80
	Apr 2012	24	3	7655.53	101
	May 2012	70	51	7662.70	119
	Jun 2012	67	60	7664.98	125
	Jul 2012	24	42	7658.09	107
	Aug 2012	18	38	7649.75	86
	Sep 2012	16	30	7643.94	73
<b>WY 2012</b>		<b>263</b>	<b>246</b>		
	Oct 2012	16	17	7643.15	71
	Nov 2012	9	5	7644.85	75
	Dec 2012	6	5	7645.42	76
	Jan 2013	5	5	7645.58	77
	Feb 2013	5	4	7645.71	77
	Mar 2013	9	3	7648.00	82
	Apr 2013	23	3	7656.18	102
	May 2013	71	55	7662.50	119
	Jun 2013	70	63	7664.92	125
	Jul 2013	29	42	7659.99	112
	Aug 2013	20	38	7652.72	94
	Sep 2013	17	30	7647.52	81
<b>WY 2013</b>		<b>281</b>	<b>269</b>		
	Oct 2013	16	19	7646.05	78
	Nov 2013	9	8	7646.41	79
	Dec 2013	6	3	7647.68	81
	Jan 2014	5	5	7647.84	82
	Feb 2014	5	4	7647.96	82

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Navajo Reservoir



		Mod Unreg Inflow	Azetea Tunnel Div	Reg Inflow	Evap Losses	NIP Diversion	Total Release	Reservoir Elev End of Month	Live Storage	Farmington Flow
	Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)
*	Mar 2011	41	2	35	2	4	31	6058.28	1326	46
H	Apr 2011	115	14	84	2	19	31	6060.75	1357	44
I	May 2011	172	22	134	4	28	32	6066.13	1428	79
S	Jun 2011	252	43	193	4	42	113	6068.65	1462	295
T	Jul 2011	40	8	46	5	48	31	6065.88	1424	98
O	Aug 2011	3	2	29	4	47	46	6060.64	1356	47
R	Sep 2011	15	2	35	3	20	40	6058.35	1327	
<b>WY 2011</b>		<b>737</b>	<b>93</b>	<b>641</b>	<b>28</b>	<b>220</b>	<b>478</b>			<b>838</b>
I	Oct 2011	54	4	44	2	10	33	6058.32	1327	55
C	Nov 2011	31	1	23	1	0	21	6058.38	1327	47
A	Dec 2011	19	0	16	1	1	30	6057.10	1311	56
L	Jan 2012	18	0	16	1	1	30	6055.85	1296	48
*	Feb 2012	19	0	19	1	1	28	6054.95	1285	
	Mar 2012	65	2	60	2	2	31	6057.02	1310	31
	Apr 2012	145	15	109	2	17	30	6061.75	1370	30
	May 2012	255	35	201	4	32	48	6070.50	1488	48
	Jun 2012	194	26	162	5	47	92	6071.78	1505	92
	Jul 2012	56	4	70	5	52	32	6070.41	1486	32
	Aug 2012	41	1	60	4	44	55	6067.27	1443	55
	Sep 2012	41	0	54	3	25	43	6066.03	1427	43
<b>WY 2012</b>		<b>937</b>	<b>88</b>	<b>833</b>	<b>29</b>	<b>231</b>	<b>474</b>			<b>538</b>
	Oct 2012	47	1	48	2	6	34	6066.46	1432	34
	Nov 2012	34	0	29	1	0	30	6066.35	1431	30
	Dec 2012	25	0	24	1	0	31	6065.78	1423	31
	Jan 2013	22	0	21	1	0	31	6065.03	1413	31
	Feb 2013	30	0	30	1	0	28	6065.12	1414	28
	Mar 2013	92	3	84	2	2	31	6068.81	1464	31
	Apr 2013	170	15	135	3	18	34	6074.61	1546	34
	May 2013	277	37	223	4	32	200	6073.64	1532	200
	Jun 2013	224	31	185	5	48	208	6068.26	1457	208
	Jul 2013	66	6	73	5	53	35	6066.77	1436	35
	Aug 2013	45	2	61	4	45	43	6064.45	1406	43
	Sep 2013	43	0	55	3	26	35	6063.79	1397	35
<b>WY 2013</b>		<b>1075</b>	<b>95</b>	<b>969</b>	<b>29</b>	<b>230</b>	<b>739</b>			<b>739</b>
	Oct 2013	47	1	49	2	6	33	6064.38	1405	33
	Nov 2013	34	1	32	1	0	30	6064.47	1406	30
	Dec 2013	25	0	22	1	0	31	6063.74	1396	31
	Jan 2014	22	0	21	1	0	31	6062.99	1386	31
	Feb 2014	30	0	30	1	0	28	6063.08	1387	28

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Lake Powell



	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry (1000 Ac-Ft)
*	Mar 2011	581	583	16	1033	0	1033	3610.73	5078	12804	1046
H	Apr 2011	1136	1096	25	940	0	940	3611.93	5088	12926	963
I	May 2011	2440	2467	30	1171	0	1171	3623.13	5182	14098	1191
S	Jun 2011	5203	4661	54	1377	0	1377	3648.98	5421	17089	1391
T	Jul 2011	3767	3195	74	1483	0	1483	3660.86	5542	18605	1502
O	Aug 2011	664	780	74	1479	0	1479	3655.34	5485	17890	1501
R	Sep 2011	456	669	67	922	0	922	3653.01	5461	17593	957
<b>WY 2011</b>		<b>15971</b>	<b>15498</b>	<b>467</b>	<b>12518</b>	<b>0</b>	<b>12518</b>				<b>12731</b>
I	Oct 2011	513	630	45	956	0	956	3650.27	5434	17249	979
C	Nov 2011	506	530	43	1099	0	1099	3645.67	5388	16683	1104
A	Dec 2011	363	490	33	1223	0	1223	3639.75	5332	15974	1226
L	Jan 2012	356	503	10	852	0	852	3636.91	5305	15641	846
*	Feb 2012	342	460	11	653	0	653	3635.28	5290	15453	654
	Mar 2012	550	581	19	600	0	600	3634.97	5287	15417	600
	Apr 2012	800	705	29	600	0	600	3635.59	5293	15488	600
	May 2012	1730	1464	36	600	0	600	3642.12	5354	16255	600
	Jun 2012	2000	1693	57	714	0	714	3649.14	5422	17108	714
	Jul 2012	770	734	70	890	0	890	3647.44	5406	16900	890
	Aug 2012	402	523	69	800	0	800	3644.82	5380	16580	800
	Sep 2012	368	477	63	476	0	476	3644.35	5376	16523	476
<b>WY 2012</b>		<b>8700</b>	<b>8791</b>	<b>484</b>	<b>9463</b>	<b>0</b>	<b>9463</b>				<b>9490</b>
	Oct 2012	512	553	43	491	0	491	3644.49	5377	16540	491
	Nov 2012	473	499	42	600	0	600	3643.40	5366	16408	600
	Dec 2012	363	451	33	800	0	800	3640.44	5338	16055	800
	Jan 2013	361	459	10	800	0	800	3637.67	5312	15729	800
	Feb 2013	393	462	11	600	0	600	3636.48	5301	15591	600
	Mar 2013	665	606	19	600	0	600	3636.38	5300	15580	600
	Apr 2013	1056	878	30	850	0	850	3636.36	5300	15578	850
	May 2013	2343	2122	36	1000	0	1000	3644.86	5380	16584	1000
	Jun 2013	2666	2368	59	1100	0	1100	3653.88	5470	17704	1100
	Jul 2013	1091	993	72	1200	0	1200	3651.84	5449	17446	1200
	Aug 2013	500	616	70	1009	0	1009	3648.40	5415	17017	1009
	Sep 2013	408	546	64	800	0	800	3646.00	5392	16723	800
<b>WY 2013</b>		<b>10831</b>	<b>10554</b>	<b>488</b>	<b>9850</b>	<b>0</b>	<b>9850</b>				<b>9850</b>
	Oct 2013	512	580	44	600	0	600	3645.51	5387	16664	600
	Nov 2013	473	526	42	600	0	600	3644.63	5378	16556	600
	Dec 2013	363	503	33	800	0	800	3642.08	5354	16250	800
	Jan 2014	361	474	10	800	0	800	3639.45	5329	15939	800
	Feb 2014	393	470	11	650	0	650	3637.95	5315	15762	650

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



	Date	Glen Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	SNWP Use (1000 Ac-Ft)	Downstream Requirements (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
*	Mar 2011	1033	77	33	1006	16.4	15	1002	726	1096.39	11170
H	Apr 2011	940	140	40	1078	18.1	20	1066	722	1095.76	11115
I	May 2011	1171	104	47	1001	16.3	25	997	735	1097.90	11304
S	Jun 2011	1377	72	57	939	15.8	25	938	761	1102.38	11705
T	Jul 2011	1483	74	73	1001	16.3	26	1000	789	1107.07	12133
O	Aug 2011	1479	96	80	831	13.5	28	829	827	1113.45	12730
R	Sep 2011	922	96	67	670	11.3	18	668	844	1116.04	12977
<b>WY 2011</b>		<b>12518</b>	<b>1157</b>	<b>578</b>	<b>9799</b>		<b>225</b>	<b>9676</b>			
I	Oct 2011	956	66	49	443	7.2	20	436	875	1121.00	13456
C	Nov 2011	1099	36	50	564	9.5	13	561	906	1125.82	13933
A	Dec 2011	1223	84	45	497	8.1	9	482	952	1132.83	14644
L	Jan 2012	852	56	37	713	11.6	10	712	976	1134.18	15022
*	Feb 2012	653	45	34	775	13.5	11	775	969	1133.06	14907
	Mar 2012	600	78	38	971	15.8	19	971	948	1129.84	14578
	Apr 2012	600	76	46	1112	18.7	17	1112	917	1125.17	14110
	May 2012	600	64	52	1036	16.8	28	1036	890	1120.86	13685
	Jun 2012	714	33	62	952	16.0	25	952	872	1118.04	13412
	Jul 2012	890	54	77	865	14.1	29	865	870	1117.78	13386
	Aug 2012	800	103	82	801	13.0	29	801	870	1117.69	13377
	Sep 2012	476	74	67	718	12.1	19	718	854	1115.20	13138
<b>WY 2012</b>		<b>9463</b>	<b>769</b>	<b>640</b>	<b>9448</b>		<b>228</b>	<b>9421</b>			
	Oct 2012	491	49	49	421	6.9	22	421	857	1115.67	13184
	Nov 2012	600	46	49	534	9.0	19	534	860	1116.10	13225
	Dec 2012	800	108	42	494	8.0	16	494	881	1119.56	13558
	Jan 2013	800	78	35	694	11.3	16	694	889	1120.84	13683
	Feb 2013	600	98	32	703	12.7	15	703	886	1120.33	13634
	Mar 2013	600	78	36	1047	17.0	21	1047	860	1116.19	13234
	Apr 2013	850	76	44	1128	19.0	17	1128	844	1113.60	12986
	May 2013	1000	64	50	1010	16.4	27	1010	843	1113.36	12964
	Jun 2013	1100	33	61	945	15.9	23	945	849	1114.39	13062
	Jul 2013	1200	54	77	935	15.2	25	935	862	1116.53	13266
	Aug 2013	1009	103	82	843	13.7	27	843	872	1118.08	13415
	Sep 2013	800	74	68	667	11.2	19	667	879	1119.25	13528
<b>WY 2013</b>		<b>9850</b>	<b>861</b>	<b>624</b>	<b>9423</b>		<b>248</b>	<b>9423</b>			
	Oct 2013	600	49	50	456	7.4	23	456	887	1120.41	13642
	Nov 2013	600	46	50	546	9.2	22	546	888	1120.69	13668
	Dec 2013	800	108	43	481	7.8	17	481	911	1124.19	14012
	Jan 2014	800	78	36	694	11.3	20	694	919	1125.41	14133
	Feb 2014	650	98	33	703	12.7	18	703	918	1125.35	14127

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Davis Dam - Lake Mohave



	Date	Hoover Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Spill Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
*	Mar 2011	1006	-11	13	976	0	976	15.9	643.23	1705
H	Apr 2011	1078	-13	17	1047	0	1047	17.6	643.30	1707
I	May 2011	1001	-10	22	949	0	949	15.4	644.04	1727
S	Jun 2011	939	-9	25	954	0	954	16.0	642.27	1679
T	Jul 2011	1001	-10	25	943	0	943	15.3	643.11	1702
O	Aug 2011	831	-6	23	822	0	822	13.4	642.38	1682
R	Sep 2011	670	-6	18	717	0	717	12.1	639.73	1610
<b>WY 2011</b>		<b>9799</b>	<b>-120</b>	<b>198</b>	<b>9446</b>	<b>0</b>	<b>9446</b>			
I	Oct 2011	443	7	15	611	0	611	9.9	633.03	1435
C	Nov 2011	564	-11	10	466	0	466	7.8	635.99	1511
A	Dec 2011	497	-28	9	385	0	385	6.3	638.82	1586
L	Jan 2012	713	-23	10	638	0	638	10.4	640.38	1628
*	Feb 2012	775	-18	10	726	0	726	12.6	641.20	1650
	Mar 2012	971	-14	13	908	0	908	14.8	642.50	1685
	Apr 2012	1112	-14	17	1068	0	1068	17.9	643.00	1699
	May 2012	1036	-14	22	1000	0	1000	16.3	643.00	1699
	Jun 2012	952	-10	25	943	0	943	15.9	642.00	1671
	Jul 2012	865	-4	25	849	0	849	13.8	641.50	1658
	Aug 2012	801	-7	23	771	0	771	12.5	641.50	1658
	Sep 2012	718	0	18	793	0	793	13.3	638.00	1564
<b>WY 2012</b>		<b>9448</b>	<b>-138</b>	<b>197</b>	<b>9158</b>	<b>0</b>	<b>9158</b>			
	Oct 2012	421	0	14	600	0	600	9.8	630.49	1371
	Nov 2012	534	-15	10	394	0	394	6.6	635.00	1486
	Dec 2012	494	-19	9	368	0	368	6.0	638.71	1583
	Jan 2013	694	-13	10	588	0	588	9.6	641.80	1666
	Feb 2013	703	-6	10	687	0	687	12.4	641.80	1666
	Mar 2013	1047	-14	13	985	0	985	16.0	643.05	1700
	Apr 2013	1128	-14	17	1100	0	1100	18.5	643.00	1699
	May 2013	1010	-14	22	974	0	974	15.8	643.00	1699
	Jun 2013	945	-10	25	937	0	937	15.7	642.00	1671
	Jul 2013	935	-4	25	919	0	919	14.9	641.50	1658
	Aug 2013	843	-7	23	813	0	813	13.2	641.50	1658
	Sep 2013	667	0	18	742	0	742	12.5	638.00	1564
<b>WY 2013</b>		<b>9423</b>	<b>-118</b>	<b>196</b>	<b>9109</b>	<b>0</b>	<b>9109</b>			
	Oct 2013	456	0	15	572	0	572	9.3	633.00	1434
	Nov 2013	546	-15	10	469	0	469	7.9	635.00	1486
	Dec 2013	481	-19	9	355	0	355	5.8	638.71	1583
	Jan 2014	694	-13	10	588	0	588	9.6	641.80	1666
	Feb 2014	703	-6	10	687	0	687	12.4	641.80	1666

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Parker Dam - Lake Havasu



	Date	Davis Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	MWD Diversion (1000 Ac-Ft)	CAP Diversion (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Flow To Mexico (1000 Ac-Ft)	Flow To Mexico (1000 CFS)
*	Mar 2011	976	6	9	694	11.3	71	186	448.06	581	199	3.2
H	Apr 2011	1047	18	11	786	13.2	71	180	448.54	590	204	3.4
I	May 2011	949	17	13	691	11.2	83	166	448.68	593	115	1.9
S	Jun 2011	954	14	15	708	11.9	96	155	447.73	575	120	2.0
T	Jul 2011	943	34	17	762	12.4	100	77	448.22	584	127	2.1
O	Aug 2011	822	25	17	669	10.9	91	60	448.13	583	97	1.6
R	Sep 2011	717	30	15	538	9.0	83	102	448.28	585	91	1.5
<b>WY 2011</b>		<b>9446</b>	<b>263</b>	<b>140</b>	<b>6837</b>		<b>963</b>	<b>1657</b>			<b>1634</b>	
I	Oct 2011	611	31	12	472	7.7	8	149	447.97	579	62	1.0
C	Nov 2011	466	37	9	321	5.4	7	175	447.32	567	93	1.6
A	Dec 2011	385	27	6	267	4.3	15	151	445.69	537	108	1.7
L	Jan 2012	638	13	6	382	6.2	54	187	446.61	554	131	2.1
*	Feb 2012	726	12	8	497	8.6	49	169	447.10	563	159	2.8
	Mar 2012	908	18	9	697	11.3	21	184	447.50	571	187	3.0
	Apr 2012	1068	19	11	781	13.1	98	178	448.00	580	205	3.5
	May 2012	1000	18	13	695	11.3	101	183	448.70	593	112	1.8
	Jun 2012	943	15	16	688	11.6	98	143	448.70	593	114	1.9
	Jul 2012	849	21	17	728	11.8	101	23	448.00	580	115	1.9
	Aug 2012	771	22	17	647	10.5	84	42	447.50	571	105	1.7
	Sep 2012	793	20	15	567	9.5	81	154	446.81	557	102	1.7
<b>WY 2012</b>		<b>9158</b>	<b>253</b>	<b>139</b>	<b>6742</b>		<b>717</b>	<b>1737</b>			<b>1492</b>	
	Oct 2012	600	23	12	454	7.4	7	153	446.31	548	64	1.0
	Nov 2012	394	32	8	382	6.4	3	23	446.50	552	102	1.7
	Dec 2012	368	26	6	278	4.5	3	103	446.50	552	106	1.7
	Jan 2013	588	15	6	358	5.8	94	141	446.50	552	122	2.0
	Feb 2013	687	7	8	462	8.3	84	135	446.50	552	153	2.8
	Mar 2013	985	18	9	711	11.6	94	178	446.70	555	208	3.4
	Apr 2013	1100	19	11	798	13.4	90	172	448.70	593	200	3.4
	May 2013	974	18	13	695	11.3	94	178	448.70	593	111	1.8
	Jun 2013	937	15	16	677	11.4	90	155	448.70	593	112	1.9
	Jul 2013	919	21	17	731	11.9	94	98	448.00	580	118	1.9
	Aug 2013	813	22	17	624	10.2	94	97	447.50	571	92	1.5
	Sep 2013	742	20	15	527	8.9	77	147	446.81	557	89	1.5
<b>WY 2013</b>		<b>9109</b>	<b>237</b>	<b>139</b>	<b>6698</b>		<b>823</b>	<b>1581</b>			<b>1477</b>	
	Oct 2013	572	23	12	445	7.2	29	110	446.31	548	72	1.2
	Nov 2013	469	32	8	376	6.3	30	77	446.50	552	105	1.8
	Dec 2013	355	26	6	284	4.6	30	56	446.50	552	118	1.9
	Jan 2014	588	15	6	358	5.8	94	141	446.50	552	122	2.0
	Feb 2014	687	7	8	462	8.3	84	135	446.50	552	153	2.8

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Hoover Static Head (Ft)	Hoover Gen Capacity MW	Hoover Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Mar 2011	1006	16.4	1096.39	11170	54	449.79	1232.0	398.2	75	395.8
H	Apr 2011	1078	18.1	1095.76	11115	-55	449.53	1157.0	430.9	70	399.6
I	May 2011	1001	16.3	1097.90	11304	189	452.71	1468.0	394.5	88	393.9
S	Jun 2011	939	15.8	1102.38	11705	401	457.87	1661.0	372.1	100	396.2
T	Jul 2011	1001	16.3	1107.07	12133	429	462.21	1698.0	403.2	100	402.6
O	Aug 2011	831	13.5	1113.45	12730	597	469.04	1721.0	338.8	100	407.7
R	Sep 2011	670	11.3	1116.04	12977	247	473.88	1757.0	272.0	100	406.1
<b>WY 2011</b>		<b>9799</b>							<b>3848.4</b>		
I	Oct 2011	443	7.2	1121.00	13456	479	478.70	1311.0	178.9	74	403.5
C	Nov 2011	564	9.5	1125.82	13933	477	481.61	1110.0	233.8	61	414.3
A	Dec 2011	497	8.1	1132.83	14644	711	488.04	1374.0	207.2	75	417.3
L	Jan 2012	713	11.6	1134.18	15022	139	485.97	1146.0	308.0	61	432.1
*	Feb 2012	775	13.5	1133.06	14907	-115	484.32	1282.0	338.6	68	436.7
	Mar 2012	971	15.8	1129.84	14578	-329	483.30	1047.0	436.2	56	449.2
	Apr 2012	1112	18.7	1125.17	14110	-468	476.54	1392.0	486.8	76	438.0
	May 2012	1036	16.8	1120.86	13685	-424	471.33	1468.0	440.2	81	424.9
	Jun 2012	952	16.0	1118.04	13412	-274	466.01	1798.0	399.3	100	419.6
	Jul 2012	865	14.1	1117.78	13386	-25	464.97	1795.0	363.9	100	420.7
	Aug 2012	801	13.0	1117.69	13377	-9	464.95	1794.0	333.9	100	416.8
	Sep 2012	718	12.1	1115.20	13138	-239	464.81	1782.0	296.4	100	412.6
<b>WY 2012</b>		<b>9448</b>							<b>4023.3</b>		
	Oct 2012	421	6.9	1115.67	13184	46	468.35	1394.0	170.4	78	404.3
	Nov 2012	534	9.0	1116.10	13225	41	471.27	1391.0	218.6	78	409.4
	Dec 2012	494	8.0	1119.56	13558	334	470.51	1407.0	205.0	78	415.3
	Jan 2013	694	11.3	1120.84	13683	124	470.63	1414.0	289.4	78	416.8
	Feb 2013	703	12.7	1120.33	13634	-49	469.96	1419.0	297.6	78	423.1
	Mar 2013	1047	17.0	1116.19	13234	-400	467.25	1400.0	443.2	78	423.3
	Apr 2013	1128	19.0	1113.60	12986	-247	463.33	1414.0	480.9	80	426.2
	May 2013	1010	16.4	1113.36	12964	-23	459.74	1756.0	412.6	100	408.5
	Jun 2013	945	15.9	1114.39	13062	98	460.47	1759.0	392.0	100	414.8
	Jul 2013	935	15.2	1116.53	13266	204	462.53	1771.0	387.2	100	414.0
	Aug 2013	843	13.7	1118.08	13415	150	464.52	1771.0	353.4	100	419.1
	Sep 2013	667	11.2	1119.25	13528	113	467.02	1771.0	273.5	100	409.9
<b>WY 2013</b>		<b>9423</b>							<b>3923.8</b>		
	Oct 2013	456	7.4	1120.41	13642	113	472.73	1381.5	188.0	78	412.1
	Nov 2013	546	9.2	1120.69	13668	26	475.10	1380.1	225.7	78	413.5
	Dec 2013	481	7.8	1124.19	14012	344	475.10	1380.5	200.5	78	416.9
	Jan 2014	694	11.3	1125.41	14133	121	475.22	1382.0	291.7	78	420.2
	Feb 2014	703	12.7	1125.35	14127	-6	474.74	1389.2	300.1	78	426.7

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Davis Dam - Lake Mohave



	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Davis Static Head (Ft)	Davis Gen Capacity MW	Davis Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Mar 2011	976	15.9	643.23	1705	6	138.82	204.0	123.0	80	126.0
H	Apr 2011	1047	17.6	643.30	1707	2	141.68	227.0	131.6	89	125.7
I	May 2011	949	15.4	644.04	1727	20	142.61	255.0	120.3	100	126.8
S	Jun 2011	954	16.0	642.27	1679	-48	140.41	249.9	120.6	98	126.4
T	Jul 2011	943	15.3	643.11	1702	23	143.18	255.0	119.3	100	126.5
O	Aug 2011	822	13.4	642.38	1682	-20	140.95	255.0	103.5	100	125.9
R	Sep 2011	717	12.1	639.73	1610	-72	137.99	255.0	90.2	100	125.8
<b>WY 2011</b>		<b>9446</b>							<b>1182.3</b>		
I	Oct 2011	611	9.9	633.03	1435	-175	133.41	181.1	74.4	71	121.8
C	Nov 2011	466	7.8	635.99	1511	76	134.28	170.9	57.0	67	122.2
A	Dec 2011	385	6.3	638.82	1586	74	135.59	173.4	48.1	68	124.9
L	Jan 2012	638	10.4	640.38	1628	42	138.75	170.9	77.2	67	121.0
*	Feb 2012	726	12.6	641.20	1650	22	140.80	163.2	90.8	64	125.1
	Mar 2012	908	14.8	642.50	1685	35	136.28	204.0	112.9	80	124.3
	Apr 2012	1068	17.9	643.00	1699	14	135.98	247.4	132.6	97	124.2
	May 2012	1000	16.3	643.00	1699	0	136.04	255.0	124.8	100	124.9
	Jun 2012	943	15.9	642.00	1671	-27	135.51	255.0	117.5	100	124.6
	Jul 2012	849	13.8	641.50	1658	-14	134.73	255.0	105.7	100	124.5
	Aug 2012	771	12.5	641.50	1658	0	134.46	255.0	96.2	100	124.7
	Sep 2012	793	13.3	638.00	1564	-94	132.62	255.0	97.5	100	122.9
<b>WY 2012</b>		<b>9158</b>							<b>1134.7</b>		
	Oct 2012	600	9.8	630.49	1371	-193	127.85	219.3	71.6	86	119.2
	Nov 2012	394	6.6	635.00	1486	115	125.53	244.8	46.9	96	119.1
	Dec 2012	368	6.0	638.71	1583	97	130.29	229.5	45.3	90	123.1
	Jan 2013	588	9.6	641.80	1666	83	134.09	221.9	73.4	87	124.7
	Feb 2013	687	12.4	641.80	1666	0	136.08	209.1	86.0	82	125.1
	Mar 2013	985	16.0	643.05	1700	34	135.86	239.7	122.6	94	124.4
	Apr 2013	1100	18.5	643.00	1699	-2	136.07	255.0	136.6	100	124.3
	May 2013	974	15.8	643.00	1699	0	136.04	255.0	121.7	100	125.0
	Jun 2013	937	15.7	642.00	1671	-27	135.51	255.0	116.7	100	124.6
	Jul 2013	919	14.9	641.50	1658	-14	134.73	255.0	114.1	100	124.2
	Aug 2013	813	13.2	641.50	1658	0	134.46	255.0	101.3	100	124.5
	Sep 2013	742	12.5	638.00	1564	-94	132.62	255.0	91.4	100	123.2
<b>WY 2013</b>		<b>9109</b>							<b>1127.7</b>		
	Oct 2013	572	9.3	633.00	1434	-130	129.17	219.3	68.9	86	120.5
	Nov 2013	469	7.9	635.00	1486	51	126.85	244.8	56.2	96	119.7
	Dec 2013	355	5.8	638.71	1583	97	130.29	229.5	43.7	90	123.1
	Jan 2014	588	9.6	641.80	1666	83	134.09	221.9	73.4	87	124.7
	Feb 2014	687	12.4	641.80	1666	0	136.08	209.1	86.0	82	125.1

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Parker Dam - Lake Havasu



	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Parker Static Head (Ft)	Parker Gen Capacity MW	Parker Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Mar 2011	694	11.3	448.06	581	15	80.18	112.8	47.4	94	68.4
H	Apr 2011	786	13.2	448.54	590	9	82.13	120.0	54.4	100	69.1
I	May 2011	691	11.2	448.68	593	3	80.58	120.0	47.9	100	69.3
S	Jun 2011	708	11.9	447.73	575	-18	81.68	114.0	49.9	95	70.4
T	Jul 2011	762	12.4	448.22	584	9	81.72	116.4	51.6	97	67.7
O	Aug 2011	669	10.9	448.13	583	-2	82.04	120.0	46.1	100	68.9
R	Sep 2011	538	9.0	448.28	585	3	82.16	120.0	39.4	100	73.2
<b>WY 2011</b>		<b>6837</b>							<b>474.2</b>		
I	Oct 2011	472	7.7	447.97	579	-6	81.92	92.4	31.5	77	66.8
C	Nov 2011	321	5.4	447.32	567	-12	80.93	102.0	22.1	85	69.1
A	Dec 2011	267	4.3	445.69	537	-30	81.08	67.2	17.7	56	66.2
L	Jan 2012	382	6.2	446.61	554	17	80.68	67.2	25.6	56	67.1
*	Feb 2012	497	8.6	447.10	563	9	80.85	94.8	35.1	79	70.7
	Mar 2012	697	11.3	447.50	571	8	75.73	97.2	46.3	81	66.5
	Apr 2012	781	13.1	448.00	580	10	75.13	120.0	51.6	100	66.0
	May 2012	695	11.3	448.70	593	13	75.71	120.0	46.0	100	66.2
	Jun 2012	688	11.6	448.70	593	0	76.05	120.0	45.8	100	66.5
	Jul 2012	728	11.8	448.00	580	-13	75.71	120.0	48.3	100	66.3
	Aug 2012	647	10.5	447.50	571	-10	75.13	120.0	42.4	100	65.6
	Sep 2012	567	9.5	446.81	557	-13	74.55	120.0	36.8	100	65.0
<b>WY 2012</b>		<b>6742</b>							<b>449.4</b>		
	Oct 2012	454	7.4	446.31	548	-9	74.77	102.0	29.3	85	64.6
	Nov 2012	382	6.4	446.50	552	3	74.62	102.0	24.5	85	64.1
	Dec 2012	278	4.5	446.50	552	0	74.71	102.0	17.4	85	62.8
	Jan 2013	358	5.8	446.50	552	0	74.71	102.0	22.8	85	63.8
	Feb 2013	462	8.3	446.50	552	0	73.92	120.0	29.7	100	64.2
	Mar 2013	711	11.6	446.70	555	4	74.01	120.0	46.2	100	64.9
	Apr 2013	798	13.4	448.70	593	38	75.08	120.0	52.7	100	66.0
	May 2013	695	11.3	448.70	593	0	76.05	120.0	46.2	100	66.5
	Jun 2013	677	11.4	448.70	593	0	76.05	120.0	45.0	100	66.5
	Jul 2013	731	11.9	448.00	580	-13	75.71	120.0	48.4	100	66.3
	Aug 2013	624	10.2	447.50	571	-10	75.13	120.0	40.9	100	65.5
	Sep 2013	527	8.9	446.81	557	-13	74.55	120.0	34.2	100	64.8
<b>WY 2013</b>		<b>6698</b>							<b>437.5</b>		
	Oct 2013	445	7.2	446.31	548	-9	74.77	102.0	28.7	85	64.6
	Nov 2013	376	6.3	446.50	552	3	74.62	102.0	24.1	85	64.1
	Dec 2013	284	4.6	446.50	552	0	74.71	102.0	17.9	85	62.9
	Jan 2014	358	5.8	446.50	552	0	74.71	102.0	22.8	85	63.8
	Feb 2014	462	8.3	446.50	552	0	73.92	120.0	29.7	100	64.2

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Upper Basin Power



Date	Glen Canyon 1000 MWHR	Flaming Gorge 1000 MWHR	Blue Mesa 1000 MWHR	Morrow Point 1000 MWHR	Crystal Reservoir 1000 MWHR	Fontenelle Reservoir 1000 MWHR
* Mar 2011	453	23	21	26	15	4
<b>Winter 2011</b>	<b>2299</b>	<b>156</b>	<b>79</b>	<b>97</b>	<b>48</b>	<b>19</b>
H Apr 2011	415	65	26	37	21	5
I May 2011	520	105	44	66	23	5
S Jun 2011	634	98	36	61	23	5
T Jul 2011	708					
O Aug 2011	706	60	39	44	22	8
R Sep 2011	442	58	34	41	22	6
<b>Summer 2011</b>	<b>3425</b>	<b>386</b>	<b>179</b>	<b>248</b>	<b>111</b>	<b>30</b>
I Oct 2011	446	48	28	33	18	5
C Nov 2011	508	34	11	13	7	2
A Dec 2011	563	43	25	30	17	6
L Jan 2012	388	58	15	18	10	5
* Feb 2012	295	54	9	12	2	4
Mar 2012	254	59	8	11	6	5
<b>Winter 2012</b>	<b>2454</b>	<b>296</b>	<b>96</b>	<b>117</b>	<b>60</b>	<b>27</b>
Apr 2012	254	58	12	18	10	4
May 2012	256	70	21	32	19	7
Jun 2012	308	73	18	28	17	9
Jul 2012	386	34	30	38	19	10
Aug 2012	345	34	30	37	18	8
Sep 2012	205	33	24	29	15	6
<b>Summer 2012</b>	<b>1754</b>	<b>301</b>	<b>135</b>	<b>182</b>	<b>98</b>	<b>44</b>
Oct 2012	211	34	15	20	10	6
Nov 2012	258	33	7	9	5	6
Dec 2012	343	34	15	19	10	6
Jan 2013	341	34	18	23	12	6
Feb 2013	255	30	16	21	11	5
Mar 2013	254	34	13	17	9	5
<b>Winter 2013</b>	<b>1662</b>	<b>197</b>	<b>84</b>	<b>109</b>	<b>57</b>	<b>34</b>
Apr 2013	360	33	14	21	12	5
May 2013	427	47	36	54	23	7
Jun 2013	478	84	18	29	20	9
Jul 2013	525	37	31	38	21	10
Aug 2013	439	37	38	45	23	8
Sep 2013	346	36	35	42	21	7
<b>Summer 2013</b>	<b>1790</b>	<b>201</b>	<b>100</b>	<b>142</b>	<b>76</b>	<b>30</b>
Oct 2013	259	37	21	26	14	7
Nov 2013	259	36	12	15	8	6
Dec 2013	344	37	28	35	17	6
Jan 2014	342	37	20	25	13	6
Feb 2014	277	33	16	21	11	5

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2012 24-Month Study

Most Probable Inflow\*

### Flood Control Criteria

#### Beginning of Month Conditions



Date	Flaming	Blue	Lake	Upper Basin	Lake	Total	Total	Flaming	Blue	Tot or Max	Lake	Lake	BOM Space	Mead	Mead	Sys		
	George	Mesa	Navajo	Powell	Total			Mead	George	Mesa	Allow	Powell	Mead	Total	Required	Sched Rel	FC Rel	Cont
	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	MAF		
<b>**** PREDICTED SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Mar 2012	679	297	411	8869	10256	12470	22726	240	182	368	790	8869	12470	22129	1500	971	0	37.6
Apr 2012	745	293	386	8905	10328	12799	23127	304	179	339	821	8905	12799	22525	1500	1112	0	37.3
May 2012	762	271	326	8834	10193	13267	23460	316	155	259	731	8834	13267	22832	1500	1036	0	37.9
Jun 2012	722	207	208	8067	9205	13692	22897	268	77	107	452	8067	13692	22211	1500	952	0	38.8
Jul 2012	570	109	191	7214	8082	13965	22048	103	-35	37	105	7214	13965	21284	1500	865	0	38.5
<b>**** CREDITABLE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2012	484	137	210	7422	8254	13991	22245	484	137	210	832	7422	13991	22245	1500	801	0	38.1
Sep 2012	507	182	253	7742	8684	14000	22683	507	182	253	941	7742	14000	22683	2270	718	0	37.6
Oct 2012	554	220	269	7799	8843	14239	23081	554	220	269	1043	7799	14239	23081	3040	421	0	37.4
Nov 2012	595	231	264	7782	8872	14193	23065	595	231	264	1090	7782	14193	23065	3810	534	0	37.4
Dec 2012	637	223	265	7914	9038	14152	23191	637	223	265	1125	7914	14152	23191	4580	494	0	37.3
Jan 2013	696	248	273	8267	9484	13819	23303	696	248	273	1217	8267	13819	23303	5350	694	0	37.1
<b>**** EFFECTIVE SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jan 2013	696	248	273	8267	9484	13819	23303	349	248	185	782	8267	13819	22868	5350	694	0	37.1
Feb 2013	750	284	283	8593	9910	13694	23604	401	284	194	880	8593	13694	23166	1500	703	0	36.9
Mar 2013	791	317	282	8731	10120	13743	23864	440	317	192	949	8731	13743	23423	1500	1047	0	36.5
Apr 2013	785	325	232	8742	10084	14143	24228	430	325	139	893	8742	14143	23779	1500	1128	0	36.5
May 2013	748	300	150	8744	9943	14391	24333	385	300	37	723	8744	14391	23857	1500	1010	0	37.6
Jun 2013	642	220	164	7738	8765	14413	23178	269	218	15	502	7738	14413	22653	1500	945	0	39.1
Jul 2013	496	42	239	6618	7396	14315	21711	109	17	37	163	6618	14315	21097	1500	935	0	39.1
<b>**** CREDITABLE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2013	405	27	260	6876	7568	14111	21679	405	27	260	692	6876	14111	21679	1500	843	0	38.7
Sep 2013	432	77	290	7305	8105	13962	22067	432	77	290	800	7305	13962	22067	2270	667	0	38.3
Oct 2013	487	146	299	7599	8532	13849	22381	487	146	299	933	7599	13849	22381	3040	456	0	38.1
Nov 2013	537	173	291	7658	8660	13735	22395	537	173	291	1002	7658	13735	22395	3810	546	0	38.0
Dec 2013	588	181	290	7766	8825	13709	22534	588	181	290	1059	7766	13709	22534	4580	481	0	38.0
Jan 2014	656	248	300	8072	9275	13365	22640	656	248	300	1204	8072	13365	22640	5350	694	0	37.8
<b>**** EFFECTIVE SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jan 2014	656	248	300	8072	9275	13365	22640	306	248	186	741	8072	13365	22177	5350	694	0	37.8
Feb 2014	718	289	310	8383	9701	13244	22945	367	289	196	852	8383	13244	22480	1500	703	0	37.5

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